

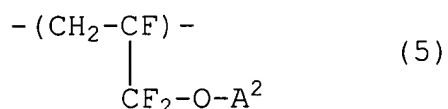
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application.

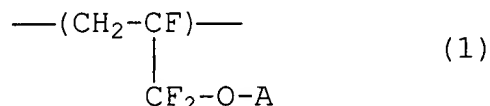
Listing of Claims:

1-5. (Canceled)

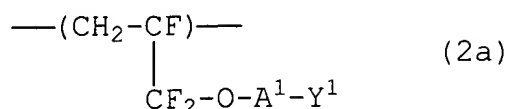
6. (Previously Presented) A fluorine-containing allyl ether copolymer consisting essentially of chains of at least two repeating units of the formula:



wherein A² is an organic group having 1 to 100 carbon atoms, wherein at least one repeating unit is a repeating unit of the formula:



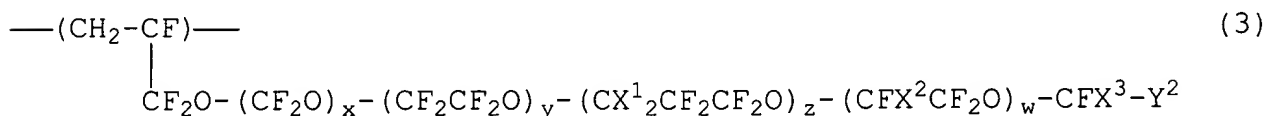
wherein A is alkyl or fluoroalkyl groups having 1 to 50 carbon atoms, alkenyl or fluoroalkenyl groups having 2 to 50 carbon atoms, alkynyl or fluoroalkynyl groups having 2 to 50 carbon atoms, alkyl or fluoroalkyl groups having an ether bond and 1 to 60 carbon atoms, alkenyl or fluoroalkenyl groups having an ether bond and 2 to 60 carbon atoms, alkynyl or fluoroalkynyl groups having an ether bond and 2 to 60 carbon atoms, aryl or fluoroaryl groups having 4 to 30 carbon atoms, and at least one repeating unit is a repeating unit of the formula:



wherein A¹ is a divalent organic group having 1 to 60 carbon atoms, and Y¹ is -CH₂OH, -COOH, -COOR¹ in which R¹ is a hydrocarbon group having 1 to

20 carbon atoms, $\text{-CON} \begin{array}{l} \text{R}^2 \\ \text{R}^3 \end{array}$ in which R² and R³ are the same or different and a hydrogen atom or a hydrocarbon group having 1 to 20 carbon atoms, -O-CF=CF₂, -OCO-CZ³=CZ¹Z² in which Z¹ and Z² are the same or different and a hydrogen atom or fluorine atom, and Z³ is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group, an epoxy group, a glycidyl group, a cyano group, a sulfonic acid group or a -SO₃R' in which R' is a monovalent organic group.

7. (**Previously Presented**) The fluorine-containing allyl ether polymer according to claim 6, wherein at least one of the repeating units is a repeating unit of the formula:



wherein X¹ is a hydrogen atom, a fluorine atom or a chlorine atom, X² is a hydrogen atom, a chlorine atom, a methyl group or a trifluoromethyl group, X³ is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group, x, y, z and w are the same or different and a number of 0 to 20 provided that the sum of x, y, z and w is from 1 to 20, and Y² is -COOH, -COOR⁴ in which R⁴ is a hydrocarbon group having 1

to 20 carbon atoms, $-\text{CH}_2\text{OH}$, $-\text{CON} \begin{array}{l} \nearrow \text{R}^5 \\ \searrow \text{R}^6 \end{array}$ in which R^5 and R^6 are the same or different and a hydrogen atom or a hydrocarbon group having 1 to 20 carbon atoms, $-\text{O}-\text{CF}=\text{CF}_2$, or $-\text{OCO}-\text{CZ}^6=\text{CZ}^4\text{Z}^5$ in which Z^4 and Z^5 are the same or different and a hydrogen atom or a fluorine atom, and Z^6 is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group.

8. (**Previously Presented**) The fluorine-containing allyl ether polymer according to claim 6, wherein A^1 in the formula (2a) is a fluoroalkylene group having 1 to 60 carbon atoms or a fluoroalkylene group having an ether bond and 1 to 60 carbon atoms.